What is claimed is:

- 1. An electronic apparatus, comprising:
- a main body;

a speaker unit detachably connected to said main body, said speaker unit having a speaker, a first wireless communication unit, and a D/A converter;

a second wireless communication unit which transmits an audio digital signal to the first wireless communication unit over a wireless cannel;

a detector which detects whether or not said speaker unit is installed in said main body; and

a controller which actuates said second wireless communication unit to transmit the audio digital signal to the first wireless communication unit when said detector detects that said speaker unit is not installed in said main body,

wherein the D/A converter converts the audio digital signal received by the first communication unit to an audio analog signal, and the speaker outputs sound on the basis of the audio analog signal.

- 2. An electronic apparatus according to claim 1, wherein said main body includes a connector to be electrically connected to said speaker unit, and
- said controller operative for transmitting said audio digital signal to the D/A converter in said

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speaker unit by way of said connector when said speaker is connected to said main body by said connector.

- 3. An electronic apparatus according to claim 1, wherein said speaker unit includes:
 - a second detector which detects whether or not said speaker is installed in said main body;
 - a battery; and
- a power supply controller which supplies electric power from said battery to the first wireless communication unit when said second detector does not detect that said speaker unit is installed in said main body.
- 4. An electronic apparatus according to claim 3, wherein said power supply controller stops supplying electric power to the first wireless communication unit when said second detector detects that said speaker is installed in said main body.

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5. An electronic apparatus according to claim 3, wherein said power supply controller charges said battery by the electric power supplied from said main body when said second detector detects that said speaker unit is installed in said main body.

6. An electronic apparatus according to claim 3, wherein said speaker unit includes:

a status detector which detects the remaining power of said battery; and

5 a status notification unit which provides a notification of the remaining power of said battery detected by said status detector.

7. An electronic apparatus according to claim 1, wherein said speaker unit includes:

a status detector which detects the communication status of wireless communications of the first wireless communication unit; and

a status notification unit which provides a notification of the communication status detected by said status detector.

- 8. An electronic apparatus according to claim 1, wherein said main body includes:
- 20 a power supply controller which supplies electric power to said speaker unit when said main unit receives power from an outside power source, and which does not supply electric power to said speaker unit when said main unit does not receive power from the outside power 25 source.

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9. An electronic apparatus in which a speaker unit is detachably mounted, comprising:

a main body in which the speaker unit is detachably mounted;

- a connector arranged in said main body and which electrically connects with said speaker unit when said speaker unit is mounted in said main body:
 - a wireless communication unit; and
- a communication controller which transmits an audio digital signal through one of said connector and said wireless communication unit.
 - 10 An electronic apparatus according to claim 9, further comprising:
- a detector which detects that the speaker unit is mounted in said main body; and

said communication controller operable for transmitting the audio digital signal through said connector when said detector detects that the speaker is mounted in said main body, and for transmitting the audio digital signal through said wireless communication unit when said detector does not detect that the speaker unit is mounted in said main body.

11. A speaker unit, comprising:

a wireless communication unit which receives an

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audio digital signal over a wireless connection;

a connector which receives the audio digital signal over a wired connection;

a D/A converter coupled to said wireless communication unit and said connector; and a speaker coupled to said D/A converter.

12. A method for outputting an audio digital signal from an electronic device to a speaker unit detachably installed in the electronic device, the electronic device and the speaker unit operative for wireless communication with each other over wireless connection, comprising:

detecting whether or not the speaker unit is installed in the electronic device, and

transmitting an audio digital signal to the speaker unit through the wireless connection when it is detected that the speaker unit is not installed in the electronic device.

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13. A method for outputting an audio digital signal according to claim 12, further comprising

transmitting an audio digital signal to the speaker unit by way of a connector electrically connected to the speaker unit when it is detected that the speaker unit is installed in the main body.

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- 14. A method for outputting an audio digital signal according to claim 12, further comprising supplying electric power for the wireless communication from a battery of the speaker unit when it is detected that the speaker unit is not installed in the electronic device.
- 15. A method for outputting an audio digital

 10 signal according to claim 14, further comprising

 stopping the supply of electric power supply for

 the wireless communication from the battery when it is

 detected that the speaker unit is installed in the

 electronic device.

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16. A method for outputting an audio digital signal according to claim 14, further comprising:

determining whether or not said electronic device receives electric power from a battery within said electric device and an outside power source connected to said electronic device; and

charging the battery with the electric power supplied from the electronic device when it is detected that the speaker unit is installed in the electronic device and the electronic device receives the electronic power from the outside power source.

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- 17. A method for outputting an audio digital signal according to claim 12, further comprising detecting the communication status of the wireless communications in the speaker unit, and providing an indication of the detected communication status.
- 18. A method for outputting an audio digital

 10 signal according to claim 12, further comprising

 detecting in the electronic device that electric

 power is supplied from a commercial power source to

 said electronic device, and

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supplying electric power to the speaker unit the electronic device when the electric power is supplied from the commercial power source to the electronic device and it is detected that the speaker unit is installed in the electronic device.

19. A method for outputting an audio digital signal according to claim 18, further comprising stopping supplying the electric power to the speaker unit when the electric power is not supplied from the commercial power source even though it is detected that the speaker unit is installed in the electronic device.

20. A method as recited in claim 19 further comprising supplying electric power to operate said speaker unit from a battery installed in said speaker unit.

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